



December | 2023

NZ

# Reid™ SwiftLift™ Eye Anchors

Compliance Document

Reid™ SwiftLift™  
Eye Anchors comply  
with NZ Good  
Practice Guidelines:  
safe work with  
precast concrete  
2018

# Reid™ SwiftLift™ Eye Anchors



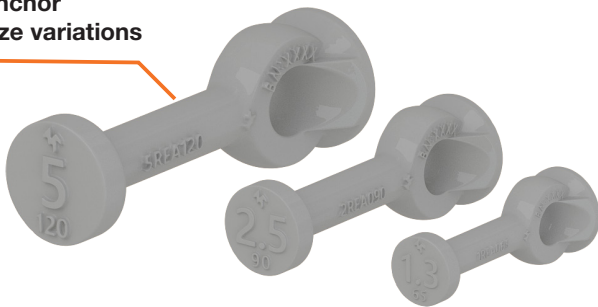
**Combination & Eye Anchors are forged from steel bar with an enlargement formed at each end.**

These anchors require additional reinforcement to achieve their full tensile capacities. They are ideal for use in thin walled or low strength concrete applications, where foot anchors would not be able to develop an appropriate pull out cone. **This product meets the building code requirements for durability B2 Durability, B2.3.1**

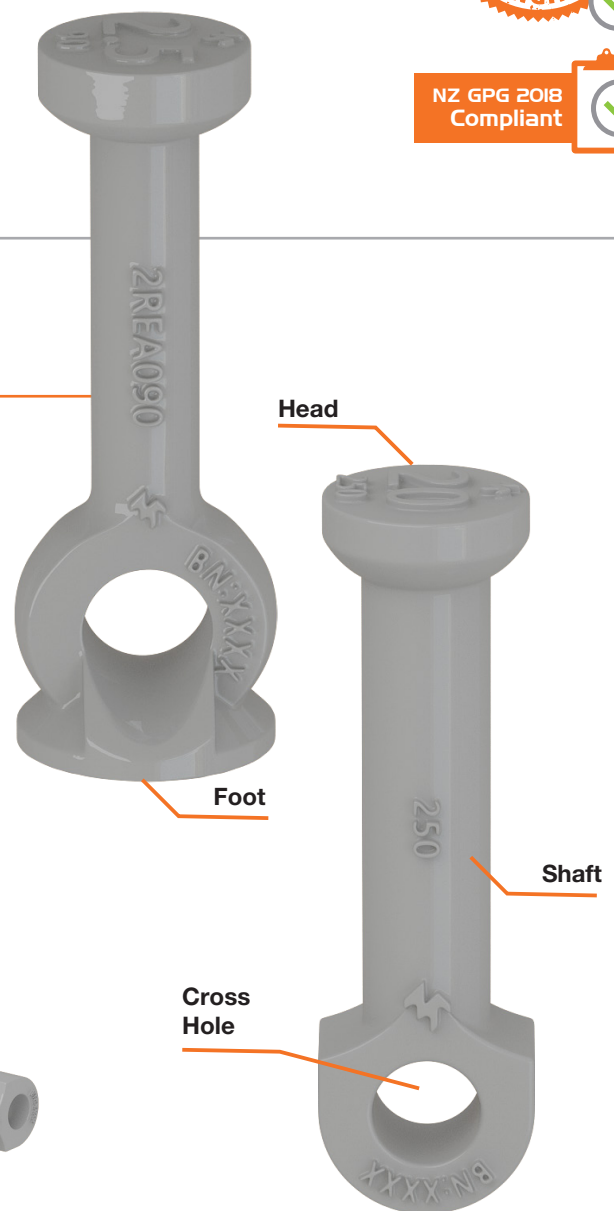
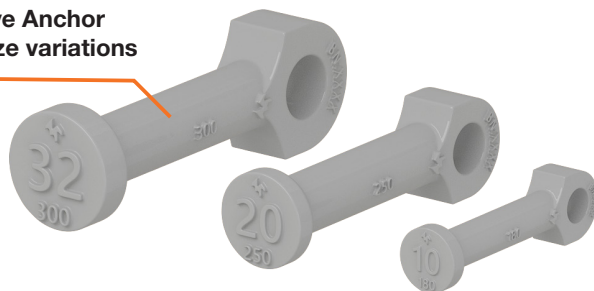


**Figure 1:**  
**SwiftLift™ Eye Anchors**

Eye Anchor size variations



Eye Anchor size variations



# Compliance Details

**Table I: NZ GPG 2018 Compliance Details**

Clause	Requirement	Compliant
6.6	The minimum FOS for general lifting needs to be 3 and for repetitive lifting needs to be 5.0.	
6.6	The design of the Lifting anchor shall include the ductile behavior and robustness of the anchor.	
10.11	Lifting clutches are to be made in accordance with a valid international standard or technical reference.	
10.11	Every item of lifting equipment should be clearly and permanently marked with its WLL. A unique numbering system to clearly identify individual items should be used.	
10.11	Lifting clutches are to be tested for loads in all directions and initially tested by the supplier to a factor of safety of 2.0	
10.11	Inspected at least every 12 months by a competent person, and a record kept of those inspections.	



SwiftLift™ Eye Anchors comply with NZ GPG 2018



# Reid™ SwiftLift™ Eye Anchors



## SwiftLift Eye Anchors

SwiftLift Eye Anchors. Used with a reinforcing hanger bar, they are able to provide deeper anchorage and increased load capacity in thin wall or low strength concrete elements.

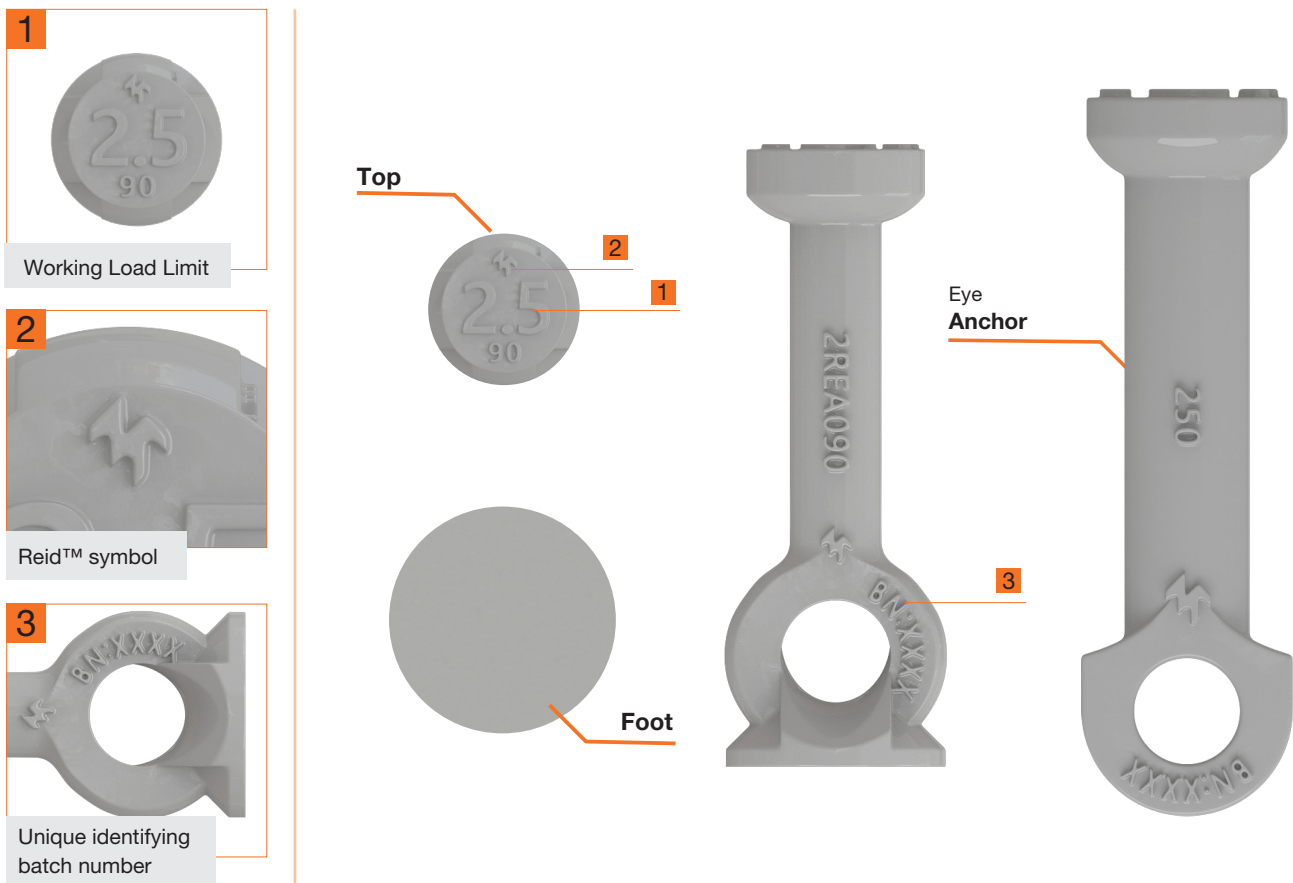
Are higher load anchors and ideal for bridge beams and other heavy precast concrete elements.



NZ GPG 2018 Compliant

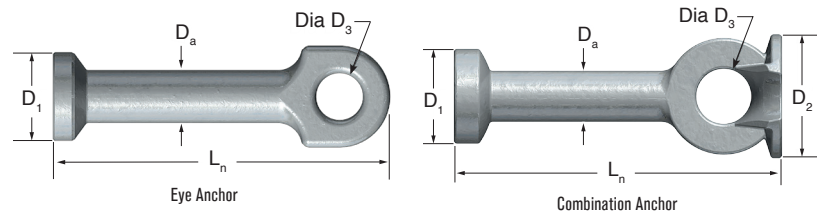


Figure 2: Reid™ SwiftLift™ Eye Anchor Markings



# Product Specifications

**Note:** anchors require supplementary reinforcement to achieve stated tensile capacities (Table 3). Combination and eye anchors are designed for tensile loads only. Additional reinforcement may be required for shear capacity; please contact your local reid engineer for further information.



**Table 2: Part Numbers & Anchor Dimensions (mm)**

Load Group (t)	Shaft Diameter $D_a$ (mm)	Head Diameter $D_1$ (mm)	Foot Diameter $D_2$ (mm)	Cross-hole Diameter $D_3$ (mm)	Length $L_n$ (mm)	Recess Form Max Radius (mm)	Part No
1.3	10	19	24	12	50	30	1REA050
2.5	14	26	31	15	90	37	2REA090
5	20	36	41	20	120	47	5REA120
10	28	46	-	25	180	59	10EA180
20	39	69	-	37	250	80	20EA250

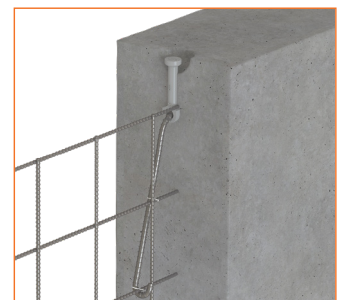
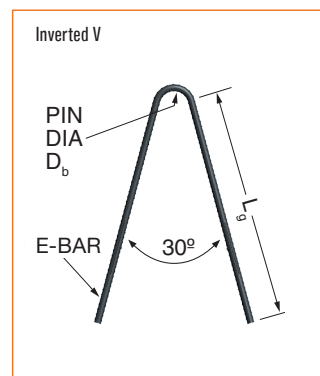
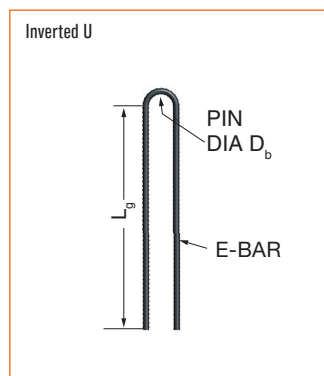
**Table 3: Tensile Performance Data (WLL), tonnes**

WLL (t)	T-bar Size	Bend Internal Diameter $D_b$ (mm)	Tension Bar Leg Length $L_g$ (mm)						
			Concrete Strength $f_{cm}$ (MPa)						
			10	15	20	25	30	35	40
1.3	HD10	50	530	430	380	340	310	300	300
2.5	HD12	60	640	520	450	400	370	340	320
5	HD16	80	850	690	600	540	490	450	430
10	HD20	100	1060	860	750	670	610	570	530
20	HD32	192	-	1380	1200	1070	980	910	850

Note: Tension bar lengths are based on using Grade 500E deformed bar and assumes no transverse reinforcement. To further optimize Tension Bar Lengths, please contact ramsetreid Engineer.

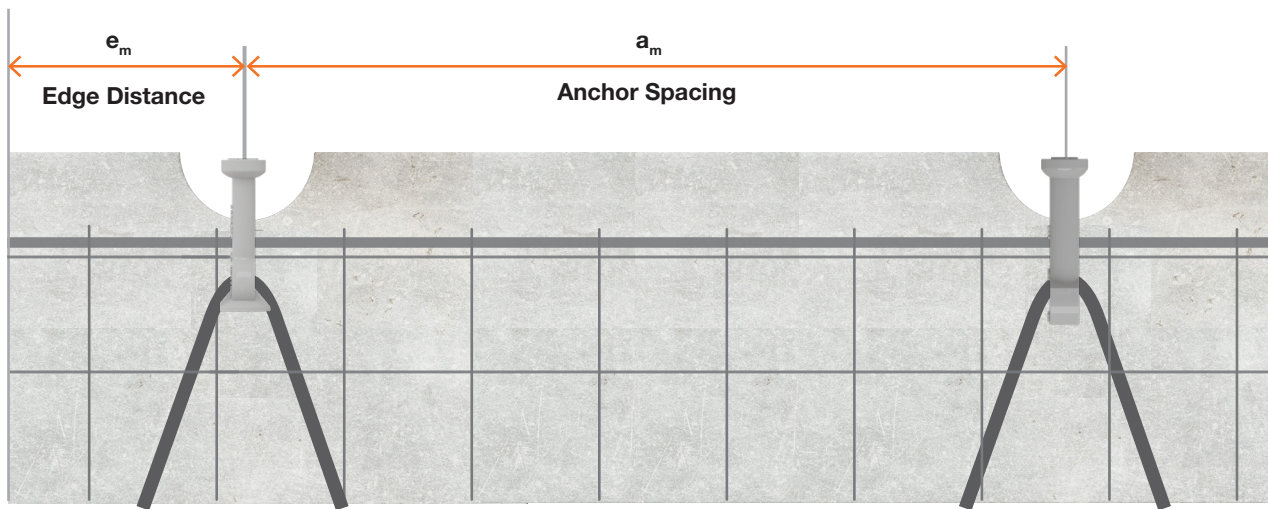
**NOTE:** Tension bars may be shaped as either an inverted U, or as an inverted V. If other codes or standards are applicable, ensure that the development length is adjusted for compliance, if necessary.

For load group 1.3t, an R10 round bar shaped as an inverted V with hook ends may be substituted for the HD10 bar.



# Reid™ SwiftLift™ Eye Anchors

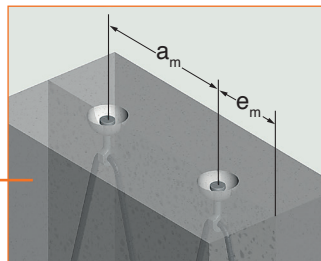
## Product Specifications (mm)



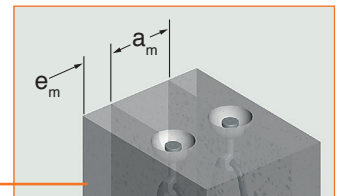
**Table 4: Minimum edge and spacing distances required to achieve WLL**

Load Group (t)	Parallel to T-bar Plane		Transverse to T-bar Plane	
	Min Spacing $a_m$ (mm)	Min Edge Distance $e_m$ (mm)	Min Spacing $a_m$ (mm)	Min Edge Distance $e_m$ (mm)
1.3	220	110	100	50
2.5	280	140	120	60
5	380	190	150	75
10	460	230	170	85
20	760	380	320	160

Minima Parallel to T-Bar Plane



Minima Transverse to T-Bar Plane



# Terms and Conditions

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**All Reid™ branded products and all products manufactured at our Melbourne manufacturing facility are designed, manufactured, tested and supplied in compliance with our Quality Management System which has been independently audited and certified by SAI Global to ISO 9001:2015. ramsetreid™ undertake strict quality control processes to ensure performance specifications and metallurgical properties are maintained.**



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